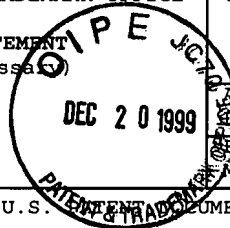


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APPLICANT:
Lester F. Ludwig, et al.

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MAY 05, 1998

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U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
<i>[Handwritten mark]</i>	P1	3,723,653	3/27/73	Tatsuzawa	—	—	
	P2	3,873,771	3/25/75	Kleinerman, et al.	—	—	
	P3	3,974,337	8/10/76	Tatsuzawa	—	—	
	P4	4,054,908	10/18/77	Poirier et al.	—	—	
	P5	4,210,927	7/1/80	Yumde, et al.	—	—	
	P6	4,441,180	4/3/84	Schussler	—	—	
	P7	4,451,705	05/29/84	Burke et al.	—	—	
	P8	4,516,156	5/7/85	Fabris, et al.	—	—	
	P9	4,529,839	7/16/85	Colton, et al.	—	—	
	P10	4,529,840	7/16/85	Colton, et al.	—	—	
	P11	4,531,024	7/23/85	Colton, et al.	—	—	
	P12	4,574,374	3/4/86	Scordo	—	—	
	P13	4,645,872	2/24/87	Pressman, et al.	—	—	
	P14	4,650,929	3/17/87	Boerger, et al.	—	—	
	P15	4,653,090	03/24/87	Hayden	—	—	
	P16	4,686,698	8/11/87	Tompkins et al.	—	—	

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(Use several sheets if necessary)APPLICANT:
Lester F. Ludwig, et al.FILING DATE
MAY 05, 1998GROUP
2700

P17	4,710,917	12/1/87	Tomkins, et al.	—	—
P18	4,716,585	12/29/87	Tompkins et al.	—	—
P19	4,817,018	03/28/89	Cree et al.	—	—
P20	4,837,798	6/6/89	Cohen, et al.	—	—
P21	4,922,523	5/1/90	Hashimoto	—	—
P22	4,931,872	06/05/90	Stoddard et al.	—	—
P23	4,953,159	8/28/90	Hayden et al.	—	—
P24	4,961,211	10/2/90	Tsugane, et al.	—	—
P25	4,965,819	10/23/90	Kannes	—	—
P26	4,977,520	12/11/90	McGauhey et al.	—	—
P27	4,987,492	1/22/91	Stults, et al.	—	—
P28	4,995,071	2/19/91	Weber, et al.	—	—
P29	5,003,532	3/26/91	Ashida, et al.	—	—
P30	5,010,399	4/23/91	Goodman, et al.	—	—
P31	5,014,267	5/7/91	Tompkins et al.	—	—
P32	5,027,400	6/25/91	Baji, et al.	—	—
P33	5,042,062	8/20/91	Lee, et al.	—	—
P34	5,072,442	12/10/91	Todd	—	—

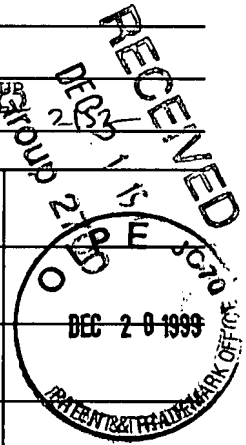
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Lester F. Ludwig, et al.FILING DATE
MAY 05, 1998GROUP
2755

P35	5,099,510	3/24/92	Blinken, Jr., et al.		
P36	5,130,399	07/14/92	Ikeno et al.		
P37	5,130,793	7/14/92	Bordry, et al.		
P38	5,130,801	7/14/92	Yamaguchi		
P39	5,155,761	10/13/92	Hammond		
P40	5,170,427	12/8/92	Guichard, et al.		
P41	5,195,086	03/16/93	Baumgartner et al.		
P42	5,200,989	4/6/93	Milone		
P43	5,202,957	4/13/93	Serrao		
P44	5,218,627	6/8/93	Corey, et al.		
P45	5,224,094	06/29/93	Maher		
P46	5,239,466	08/24/93	Morgan et al.		
P47	5,253,362	10/12/93	Nolan et al.		
P48	5,260,941	11/09/93	Wilder et al.		
P49	5,283,637	2/1/94	Goolcharan		
P50	5,303,343	04/12/94	Ohya et al.		
P51	5,315,633	5/24/94	Champa		
P52	5,333,299	07/26/94	Koval et al.		

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Lester F. Ludwig, et al.FILING DATE
MAY 05, 1998GROUP
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P53	5,351,276	09/27/94	Doll Jr. et al.	—	—
P54	5,353,398	10/4/94	Kitahara et al.	—	—
P55	5,363,507	11/08/94	Nakayama et al.	—	—
P56	5,365,265	11/15/94	Shibata et al.	—	—
P57	5,373,549	12/13/94	Bales et al.	—	—
P58	5,379,374	01/03/95	Ishizaki et al.	—	—
P59	5,382,972	1/17/95	Kannes	—	—
P60	5,392,346	2/21/95	Hassler et al.	—	—
P61	5,404,435	04/04/95	Rosenbaum	—	—
P62	5,408,662	04/18/95	Katsurabayashi	—	—
P63	5,432,525	07/11/95	Maruo et al.	—	—
P64	5,444,476	8/22/95	Conway	—	—
P65	5,471,318	11/28/95	Ahuja et al.	—	—
P66	5,473,679	12/05/95	La Porta et al.	—	—
P67	5,485,504	1/16/96	Ohnsorge	—	—
P68	5,491,695	02/13/96	Meagher et al.	—	—
P69	5,515,491	5/7/96	Bates et al.	—	—
P70	5,526,024	6/11/96	Gaglianello et al.	—	—

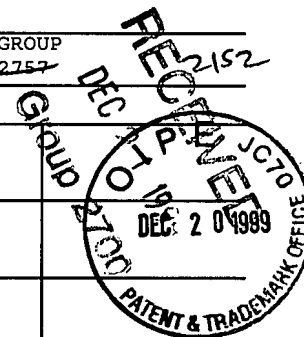
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Lester F. Ludwig, et al.FILING DATE
MAY 05, 1998GROUP
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P71	5,550,966	08/27/96	Drake et al.	—	—
P72	5,553,222	09/03/96	Milne et al.	—	—
P73	5,561,736	10/1/96	Moore et al.	—	—
P74	5,581,702	12/03/96	McArdle et al.	—	—
P75	5,590,128	12/31/96	Maloney et al.	—	—
P76	5,594,495	01/14/97	Palmer et al.	—	—
P77	5,602,580	2/11/97	Tseng	—	—
P78	5,608,653	03/04/97	Palmer et al.	—	—

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		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
F1	0 041 902	16 Dec '81	EP	—	—			
F2	0 190 060	06 Aug '86	EP	—	—			
F3	0 354 370	14 Feb '90	EP	—	—			
F4	35 07 152	29 Aug '85	DE	—	—			
F5	0 403 118	19 Dec '90	EP	—	—			
F6	0 414 222	27 Feb '91	EP	—	—			
F7	0 436 345	10 Jul '91	EP	—	—			

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(Use several sheets if necessary)APPLICANT:
Lester F. Ludwig, et al.FILING DATE
MAY 05, 1998GROUP
2257

F8	0 453 128\	23 Oct '91	EP				
F9	0 497 022	05 Aug '92	EP				
F10	0 516 371	2 Dec '92	EP				
F11	0 523 618	20 Jan '93	EP				
F12	0 535 601	07 Apr '93	EP				
F13	0 523 626	20 Jan '93	EP				
F14	0 548 597	30 Jun '93	EP				
F15	0 561 381	22 Sep '93	EP				
F16	0 604 053	29 Jun '94	EP				
F17	WO 94/24803	27 Oct '94	PCT				
F18	WO 92/21211	26 Nov '92	PCT				
F19							

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D1	ACM Press, Conference on Organizational Computing Systems, SIGOIS Bulletin, Vol. 12, No. 2-3, Nov 5-8, 1991
D2	The American Users Forum (Niu-Forum) Aug 6-9, 1990
D3	Bellcore News, "IMAL Makes Media Merging Magic," 5(20), Nov 9, 1988
D4	Frontiers in computer communications technology, Sigcom '87 Workshop (Aug 11-13, 1987)

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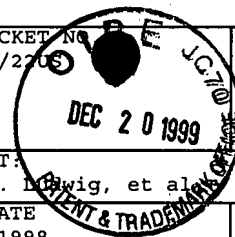
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D5	Unix 4 th Berkeley Release 1991 man pages for 'login,' 'http,' 'talk,' and 'who.' Online Internet: http://www.de.freebds.org
D6	Statement by Attorney for Applicants-Describing Product Development
D7	AHUJA et al., "Coordination and Control of Multimedia Conferencing," IEEE Communication Magazine, 30(5): 38-42, May 1992
D8	AHUJA et al., "Networking Requirements of the Rapport Multimedia Conferencing System," INFOCOM '88, IEEE, pp. 746-751, 1988
D9	BISWAS et al., "Distributed Scheduling of Meetings: A Case Study in Prototyping Distributed Application," System Integration, 1992 2 nd International Conference
D10	COHEN et al., "Audio Windows: User Interfaces for Manipulating Virtual Acoustic Environments," pp. 479-480
D11	COHEN et al., "Audio Windows for Binaural Telecommunication," EIC, Tokyo (10/91)
D12	COHEN et al., "Design and Control of Shared Conferencing Environments for Audio Telecommunication," Proceedings of the Second Int'l Symposium on Measurement and Control Robotics (ISMCR '92), Tsukuba Science City, Japan, (November 15-19, 1992), pp. 405-412
D13	COHEN et al., "Exocentric Control of Audio Imaging in Binaural Telecommunication," IEICE Trans. Fundamentals, Vol. E75-A, No. 2, (February 1992)
D14	COHEN et al., "Multidimensional Audio Window Management," Int'l Journal of Man-Machine Studie, Vol. 34:319-336 (1991)
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D16	ENSOR et al., "The Rapport Multimedia Conferencing System - Software Overview," Computer Workstation Conference, IEEE, pp. 52-58, 1988
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D19	KAMEL, "An Integrated Approach to Share Synchronous Groupware Workspaces," IEEE 1993
D20	KENDALL et al., "Simulating the Cue of Spatial Hearing in Natural Environments," Northwestern University, Evanston, IL 60201
D21	KLEIN, Telekommunikation von Angesicht zu Angesicht 2323 Telcom Report 9 (1986) Sept./Okt., No. 5, Erlangen, W. Germany
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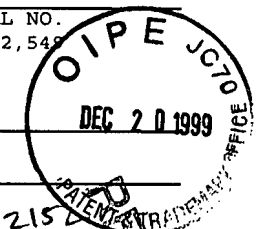
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INFORMATION DISCLOSURE STATEMENT
(Use several sheets if necessary)APPLICANT:
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D23	LAKE et al., "A network environment for studying multimedia network architecture and control," (1989 Globecom)
D24	LANTZ, An Experiment in Integrated Multimedia Conferencing, Department of Computer Science, Stanford University, Stanford, CA 94305, Dec 1986
D25	LANTZ et al., Collaboration Technology Research at Olivetti Research California, August 1989
D26	LAUWERS et al., Replicated Architectures for Shared Window Systems: A Critique, (Olivetti Research California) Version of April 1990
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D28	LEUNG et al., Optimum Connection Paths for a Class of Videoconferences, Department of Information Engineering, the Chinese University of Hong Kong, Shatin, Hong Kong
D29	MAENO et al., Distributed Desktop Conferencing System (MERMAID) Based on Group Communication Architecture, The Transactions of the Institute of Electronics, Information and Comm. Engineers E74 (1991) Sept., No. 9, Tokyo, JP
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D31	MASAKI et al., "A Desktop Teleconferencing Terminal Based on B-ISDN: PMTC," NTT Review, 4(4):81-85, 1992
D32	NG et al., Systems Integration '90, (April 23-26, 1990)
D33	NUNOKAWA et al., "Teleconferencing Using Stereo Voice and Electronic OHP," IEEE, 1988
D34	OHMORI et al., "Distributed Cooperative Control for Sharing Applications Based on Multiparty and Multimedia Desktop Conferencing System," IEEE, 1992
D35	PATE, "Trends in Multimedia Applications and the Network Models to Support Them," Globecom's 90: 1990
D36	PERKINS, "Spider: An investigation in collaborative technologies and their effects on network performance"
D37	RANGAN et al., "A Window-Based Editor for Digital Video and Audio," System Sciences, 1992 Hawaii Int'l Conference (1992)
D38	SAKATA, "B-ISDN Multimedia Workstation Architecture," IEEE, 1993
D39	SAKATA et al., "Development and Evaluation of an In-House Multimedia Desktop Conference System," NEC Research & Development, no. 98, pp. 107-117, July 1990
D40	VIN et al., Hierarchical Conferencing Architectures for Inter-Group Multimedia Collaboration, Multimedia Laboratory Department of Computer Science and Engineering University of California at San Diego, La Jolla
D41	VIN et al., Multimedia Conferencing in the Etherphone Environment, Computer Magazine, Vol. 24, Issue 10, pp. 69-79, 1991

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INFORMATION DISCLOSURE STATEMENT
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APPLICANT:
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✓	D42	WATABE et al., "A Distributed Multiparty Desktop Conferencing System and Its Architecture," IEEE, 1991
✓	D43	WATABE et al., "Distributed Desktop Conferencing System with Multiuser Multimedia Interface," IEEE, 1991
✓	D44	WEISS, Desk Top Video Conferencing - An Important Feature of Future Visual, SIEMENS AG - Munich - West Germany
✓	D45	ZELLWEGER et al., "An Overview of the Etherphone System and Its Applications," Computer Workstations Conference, 1988
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INFORMATION DISCLOSURE STATEMENT
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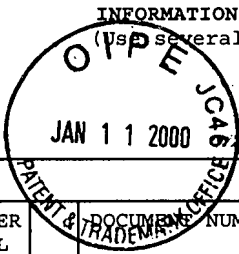
Lester F. Ludwig, et al.

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FILING DATE

GROUP

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U.S. PATENT DOCUMENTS

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P1	3,723,653	3/27/73	Tatsuzawa	/	/	
P2	3,873,771	3/25/75	Kleinerman, et al.	/	/	
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P5	4,210,927	7/1/80	Yumde, et al.	/	/	
P6	4,441,180	4/3/84	Schussler	/	/	
P7	4,451,705	05/29/84	Burke et al.	/	/	
P8	4,516,156	5/7/85	Fabris, et al.	/	/	
P9	4,529,839	7/16/85	Colton, et al.	/	/	
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P13	4,645,872	2/24/87	Pressman, et al.	/	/	
P14	4,650,929	3/17/87	Boerger, et al.	/	/	
P15	4,653,090	03/24/87	Hayden	/	/	
P16	4,686,698	8/11/87	Tompkins et al.	/	/	

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INFORMATION DISCLOSURE STATEMENT
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APPLICANT:
Lester F. Ludwig, et al.

FILING DATE

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P17	4,710,917	12/1/87	Tomkins, et al.	/	/	RECEIVED JAN 14 2000 TECH CENTER 2700
P18	4,716,585	12/29/87	Tompkins et al.	/	/	
P19	4,817,018	03/28/89	Cree et al.	/	/	
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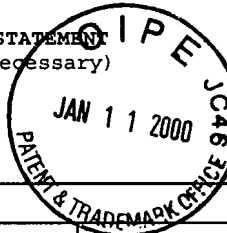
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P35	5,099,510	3/24/92	Blinken, Jr., et al.	/	/	RECEIVED JAN 14 2000 TECH CENTER 2700
P36	5,130,399	07/14/92	Ikeno et al.	/	/	
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P39	5,155,761	10/13/92	Hammond	/	/	
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P51	5,315,633	5/24/94	Champa	/	/	
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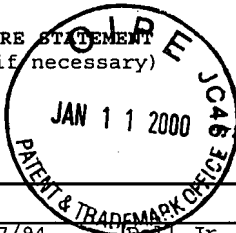
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P56	5,365,265	11/15/94	Shibata et al.	/	/	
P57	5,373,549	12/13/94	Bales et al.	/	/	
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P63	5,432,525	07/11/95	Maruo et al.	/	/	
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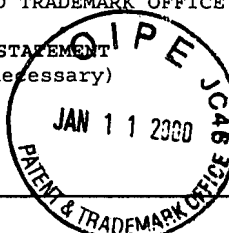
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5	F1	0 041 902	16 Dec '81	EP	—	—		
	F2	0 190 060	06 Aug '86	EP	—	—		
	F3	0 354 370	14 Feb '90	EP	—	—		
	F4	35 07 152	29 Aug '85	DE	—	—		
	F5	0 403 118	19 Dec '90	EP	—	—		
	F6	0 414 222	27 Feb '91	EP	—	—		
	F7	0 436 345	10 Jul '91	EP	—	—		

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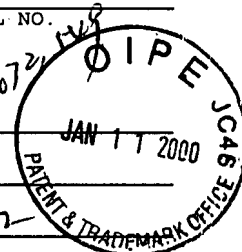
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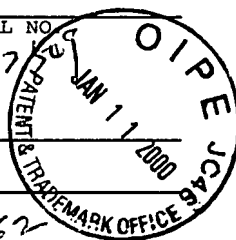
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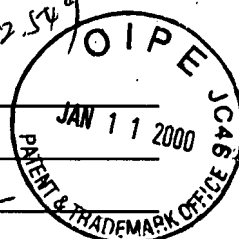
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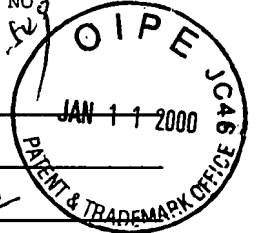
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P2	4,796,293	01/03/89	Blinken et al.	—	—	
P3	4,888,795	12/19/89	Ando et al.	—	—	
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P6	5,073,926	12/17/91	Suzuki et al.	—	—	
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P8	5,195,087	03/16/93	Bennett et al.	—	—	
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P10	5,319,795	07/07/94	Hamabe et al.	—	—	
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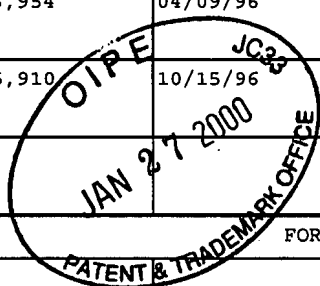
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